



Performance Data Sheet

AE4440Y-XN1A

General Information

Model	AE4440Y-XN1A	Refrigerant	R-134a
Test Condition	EN12900 ASERCOM	Performance Test Voltage	240V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-15	Watts (Capacity)	531	434	358	290
	Watts (Power)	232	282	307	320
	Amps	2.59	2.69	2.73	2.74
	Lb/h	10.7	9.61	8.80	8.15
-10	Watts (Capacity)	669	559	471	392
	Watts (Power)	255	306	332	346
	Amps	2.62	2.72	2.77	2.79
	Lb/h	13.5	12.4	11.6	10.8
-6.7	Watts (Capacity)	774	653	554	464
	Watts (Power)	270	324	352	368
	Amps	2.65	2.76	2.81	2.84
	Lb/h	15.7	14.6	13.6	12.7
-5	Watts (Capacity)	832	705	600	504
	Watts (Power)	277	333	363	380
	Amps	2.66	2.78	2.84	2.87
	Lb/h	16.9	15.8	14.8	13.9
0	Watts (Capacity)	1030	877	749	631
	Watts (Power)	297	360	396	419
	Amps	2.71	2.84	2.92	2.98
	Lb/h	20.9	19.7	18.6	17.6
5	Watts (Capacity)	1250	1080	924	780
	Watts (Power)	311	383	427	458
	Amps	2.74	2.90	3.01	3.09
	Lb/h	25.7	24.4	23.2	22.0
7.2	Watts (Capacity)	1370	1180	1010	853
	Watts (Power)	313	391	440	475

	Amps	2.75	2.92	3.04	3.14
	Lb/h	28.0	26.8	25.5	24.2
10	Watts (Capacity)	1520	1320	1130	955
	Watts (Power)	313	398	453	494
	Amps	2.76	2.95	3.09	3.20
	Lb/h	31.3	30.0	28.7	27.3
15	Watts (Capacity)	1840	1590	1370	1160
	Watts (Power)	302	401	470	524
	Amps	2.74	2.97	3.15	3.31
	Lb/h	38.0	36.6	35.2	33.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.722056E+03	-1.975000E+02	1.697000E+00	2.587575E+01
C2	5.703383E+01	-2.285833E+00	-2.558333E-03	8.471900E-01
C3	-3.179540E+01	2.697958E+01	5.477917E-02	-2.210126E-01
C4	9.899941E-01	-2.820000E-01	-5.866667E-04	1.588513E-02
C5	-5.081852E-01	2.120000E-01	2.983333E-04	2.415726E-03
C6	3.453843E-01	-4.205000E-01	-8.475000E-04	2.302403E-03
C7	6.594099E-03	-4.966667E-03	-1.233333E-05	1.692204E-04
C8	-9.568770E-03	4.950000E-03	1.316667E-05	-2.151990E-05
C9	2.637640E-04	-7.000000E-04	1.833333E-06	-5.106887E-05
C10	-1.973345E-03	2.366667E-03	4.833333E-06	-1.547580E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature